

10/25/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4101204-01

Enclosed are results for sample(s) received 10/12/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 10/21/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project # 01105**  
Date Received: **10/12/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4101204-01										
Client Sample I.D.:	AS-167										
Date Sampled:	10/11/04										
Date Analyzed:	10/14/04										
Analyst Initials:	DT										
Data File:	14oct019										
QC Batch:	041014GC11A1										
Dilution Factor:	5.0										
ANALYTE	PQL	RL	Results								
MtBE	0.010	0.050	ND								
Benzene	0.010	0.050	0.28								
Toluene	0.010	0.050	4.2								
Ethylbenzene	0.010	0.050	0.74								
Total Xylenes	0.010	0.050	22								
TVPH as Gasoline	1.0	5.0	260								

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson  
Air Toxics Operations Manager

Date: 10-21-04

The cover letter is an integral part of this analytical report.





QC Batch No.: 041014GC11A1

Matrix: Air

Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		10/14/04		10/14/04		10/14/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		14oct009		14oct001		14oct002			
Gasoline Datafile:		14oct009		14oct004		14oct005			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	93	70-130%	93	70-130%	0.3	<30
Benzene	0.010	0.010	ND	86	70-130%	86	70-130%	0.4	<30
Toluene	0.010	0.010	ND	95	70-130%	95	70-130%	0.2	<30
Ethylbenzene	0.010	0.010	ND	89	70-130%	88	70-130%	0.8	<30
p,m-Xylene	0.010	0.010	ND	90	70-130%	89	70-130%	0.5	<30
o-Xylene	0.010	0.010	ND	86	70-130%	88	70-130%	2.8	<30
TVPH as Gasoline	1.0	1.0	ND	102	70-130%	102	70-130%	0.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Air Toxics Operations Manager

Date:

10-21-01

The cover letter is an integral part of this analytical report.





10/28/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4101904-01

Enclosed are results for sample(s) received 10/19/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

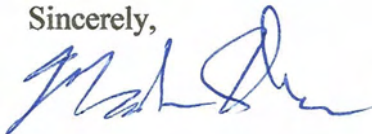
**Report Narrative:**

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 10/26/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: C. James & Associates  
Attn: W. Heidi Hamilton

Client's Project: Metro Car Wash, Costa Mesa, Project # 01105  
Date Received: 10/19/04  
Matrix: Air  
Units: ppmv

EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:	A4101904-01				
Client Sample I.D.:	AS-168				
Date Sampled:	10/18/04				
Date Analyzed:	10/19/04				
Analyst Initials:	DT				
Data File:	19oct014				
QC Batch:	041019GC11A1				
Dilution Factor:	3.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.030	ND		
Benzene	0.010	0.030	0.43		
Toluene	0.010	0.030	5.1		
Ethylbenzene	0.010	0.030	0.89		
Total Xylenes	0.010	0.030	28		
TVPH as Gasoline	1.0	3.0	370		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Air Toxics Operations Manager

Date:

10-26-04

The cover letter is an integral part of this analytical report.





QC Batch No.: 041019GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		10/19/04		10/19/04		10/19/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		19oct010		19oct007		19oct008			
Gasoline Datafile:		19oct010		19oct001		19oct002			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	85	70-130%	85	70-130%	0.5	<30
Benzene	0.010	0.010	ND	78	70-130%	80	70-130%	2.5	<30
Toluene	0.010	0.010	ND	87	70-130%	88	70-130%	1.3	<30
Ethylbenzene	0.010	0.010	ND	82	70-130%	82	70-130%	0.4	<30
p,m-Xylene	0.010	0.010	ND	83	70-130%	84	70-130%	1.0	<30
o-Xylene	0.010	0.010	ND	87	70-130%	93	70-130%	6.5	<30
TVPH as Gasoline	1.0	1.0	ND	103	70-130%	104	70-130%	0.5	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:

  
Mark J. Johnson  
Air Toxics Operations Manager

Date:

10-26-04

The cover letter is an integral part of this analytical report.



11/08/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4102707-01

Enclosed are results for sample(s) received 10/27/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

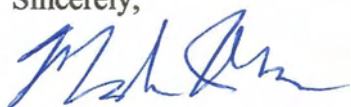
Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 11/05/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

# CHAIN OF CUSTODY RECORD

Pg 1 of 1



**Air Technology  
Laboratories**

18501 E. Gale Avenue, Suite 130  
City of Industry, CA 91748  
626-964-4032 • Fax: 626-964-5832

Project Name: METRO CAR WASH, COSTA MESA  
Project #: 01105  
P.O. #:

Method of Transport  
Walk-in ☐  
Courier ☐  
UPS ☐  
FedEx ☐  
ATL ☐

## FOR LABORATORY USE ONLY

Sample Condition Upon Receipt  
1. CHILLED Y ☐ N ☐ 4. SEALED Y ☐ N ☐  
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐  
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Company: C. JAMES & ASSOCIATES

Contact: W. Heidi Hamilton

Address: 441 CALLE CORAZON

City: OCEANSIDE

State: CALIF

Zip Code: 92057

TEL: (760) 722-0050

FAX: (760) 722-0150

Relinquished by: (Signature and Printed Name)

Buddy L. Pearce, Buddy L. Pearce 10-25-04

Date:

Time:

Received by: (Signature and Printed Name)

Date:

Time:

Relinquished by: (Signature and Printed Name)

CALIF OVERNIGHT 10-27-04 1255

Date:

Time:

Received by: (Signature and Printed Name)

Date:

Time:

Relinquished by: (Signature and Printed Name)

Date:

Time:

Received by: (Signature and Printed Name)

Date:

Time:

I hereby authorize ATL to perform the work indicated below:

Send Report To:

Attn: W. Heidi Hamilton

Bill To:

Attn:

Special Instructions/Comments:

W. Heidi Hamilton 10-25-04  
Project Mgr./Submitter (Print Name) Date  
W. Heidi Hamilton  
Signature

Co: C. JAMES & ASSOCIATES  
Address: 441 CALLE CORAZON  
City: OCEANSIDE State: CAL Zip: 92057

Co:  
Address:  
City: State: Zip:

Unless otherwise requested, all samples will be disposed 14 days after reporting or at Lab's discretion.

Sample Archive/Disposal:

☐ Laboratory Standard  
☐ Other  
☐ Return To:

\* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested

T03 Gas / BTEX / MTBE  
T03 Hexane  
T03 Carbon Chain  
T014A Volatiles  
15/16 Volatiles Std/Low Level  
15/16 Sulfur Comp Std/Low Level  
3C/D1946 Fixed Gas  
25C/3C TMMOC  
D1945 Natural Gas  
RSK 175 Dissolved Gas

CIRCLE APPROPRIATE MATRIX

AIR VAPOR  
INDOOR AIR  
LANDFILL GAS  
WATER  
SOLID • SOIL  
OIL • SOLVENT • LIQUID  
OTHER  
TAT # Type

QA/QC

RTNE ☒  
RWQCB ☐  
SPECIAL ☐

REMARKS

### LAB USE ONLY

### Sample Description

Lab No.

Sample I.D.

Date

Time

A4102707 01

AS-169

10/25

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A=

Overnight  
≤ 24 hr

B=

Emergency  
Next workday

C=

Critical  
2 Workdays

D=

Urgent  
3 Workdays

E=

Routine  
7 Workdays

Preservatives:

H=Hcl

N=None

Container Types: B=Tedlar Bag C=Canister V=VOA O= Other

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.



Client: C. James & Associates  
Attn: W. Heidi Hamilton

Client's Project: Metro Car Wash, Costa Mesa, Project # 01105  
Date Received: 10/27/04  
Matrix: Air  
Units: ppmv

EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:	A4102707-01				
Client Sample I.D.:	AS-169				
Date Sampled:	10/25/04				
Date Analyzed:	10/28/04				
Analyst Initials:	DT				
Data File:	28oct017				
QC Batch:	041028GC11A1				
Dilution Factor:	5.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.050	ND		
Benzene	0.010	0.050	0.34		
Toluene	0.010	0.050	6.0		
Ethylbenzene	0.010	0.050	0.86		
Total Xylenes	0.010	0.050	29		
TVPH as Gasoline	1.0	5.0	390		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Air Toxics Operations Manager

Date:

11-4-04

The cover letter is an integral part of this analytical report.



QC Batch No.: 041028GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)


Lab No.:	Method Blank			LCS		LCSD			
Date Analyzed:	10/28/04			10/27 - 28/04		10/27 - 28/04			
Analyst Initials:	DT			DT		DT			
BTEX Datafile:	28oct003			27oct036		27oct037			
Gasoline Datafile:	28oct003			28oct001		28oct002			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	79	70-130%	78	70-130%	0.4	<30
Benzene	0.010	0.010	ND	73	70-130%	73	70-130%	0.1	<30
Toluene	0.010	0.010	ND	81	70-130%	81	70-130%	0.4	<30
Ethylbenzene	0.010	0.010	ND	79	70-130%	78	70-130%	1.9	<30
p,m-Xylene	0.010	0.010	ND	77	70-130%	77	70-130%	0.5	<30
o-Xylene	0.010	0.010	ND	73	70-130%	73	70-130%	0.3	<30
TVPH as Gasoline	1.0	1.0	ND	93	70-130%	91	70-130%	2.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Air Toxics Operations Manager

Date:

11-4-04

The cover letter is an integral part of this analytical report.



11/16/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4110205-01

Enclosed are results for sample(s) received 11/02/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 11/15/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.







Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project # 01105**  
Date Received: **11/02/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4110205-01				
Client Sample I.D.:	AS-170				
Date Sampled:	11/01/04				
Date Analyzed:	11/04/04				
Analyst Initials:	DT				
Data File:	04nov016				
QC Batch:	041104GC11A1				
Dilution Factor:	2.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.020	0.063		
Benzene	0.010	0.020	0.26		
Toluene	0.010	0.020	3.7		
Ethylbenzene	0.010	0.020	0.62		
Total Xylenes	0.010	0.020	19		
TVPH as Gasoline	1.0	2.0	220		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



**Mark J. Johnson**  
**Air Toxics Operations Manager**

Date: 11-15-04

The cover letter is an integral part of this analytical report.



QC Batch No.: 041104GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		11/04/04		11/04/04		11/04/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		04nov011		04nov002		04nov003			
Gasoline Datafile:		04nov011		04nov005		04nov006			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	89	70-130%	88	70-130%	1.1	<30
Benzene	0.010	0.010	ND	86	70-130%	85	70-130%	1.9	<30
Toluene	0.010	0.010	ND	110	70-130%	95	70-130%	15	<30
Ethylbenzene	0.010	0.010	ND	101	70-130%	90	70-130%	11	<30
p,m-Xylene	0.010	0.010	ND	104	70-130%	94	70-130%	11	<30
o-Xylene	0.010	0.010	ND	101	70-130%	89	70-130%	12	<30
TVPH as Gasoline	1.0	1.0	ND	98	70-130%	99	70-130%	0.4	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Air Toxics Operations Manager

Date: 11-15-04

The cover letter is an integral part of this analytical report.





11/24/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash – Costa Mesa, 01105  
Lab Number: A4110802-01

Enclosed are results for sample(s) received 11/08/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

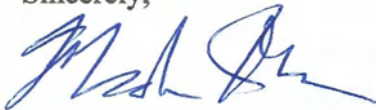
**Report Narrative:**

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 11/18/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.



Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**  
Date Received: **11/08/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4110802-01				
Client Sample I.D.:	AS-171				
Date Sampled:	11/08/04				
Date Analyzed:	11/11/04				
Analyst Initials:	DT				
Data File:	11nov012				
QC Batch:	041111GC11A1				
Dilution Factor:	5.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.050	ND		
Benzene	0.010	0.050	0.33		
Toluene	0.010	0.050	5.4		
Ethylbenzene	0.010	0.050	0.93		
Total Xylenes	0.010	0.050	30		
TVPH as Gasoline	1.0	5.0	330		

**PQL = Practical Quantitation Limit**

**ND = Not Detected (Below PQL)**

**RL = PQL X Dilution Factor**

Reviewed/Approved By: \_\_\_\_\_



**Mark J. Johnson**

**Air Toxics Operations Manager**

Date: 11-18-04

The cover letter is an integral part of this analytical report.



QC Batch No.: 041111GC11A1

Matrix: Air

Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		11/11/04		11/11/04		11/11/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		11nov006		11nov001		11nov002			
Gasoline Datafile:		11nov006		11nov004		11nov005			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	100	70-130%	99	70-130%	1.4	<30
Benzene	0.010	0.010	ND	94	70-130%	92	70-130%	2.0	<30
Toluene	0.010	0.010	ND	105	70-130%	101	70-130%	3.9	<30
Ethylbenzene	0.010	0.010	ND	102	70-130%	95	70-130%	7.0	<30
p,m-Xylene	0.010	0.010	ND	105	70-130%	97	70-130%	7.7	<30
o-Xylene	0.010	0.010	ND	102	70-130%	99	70-130%	3.0	<30
TVPH as Gasoline	1.0	1.0	ND	89	70-130%	88	70-130%	1.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson

Air Toxics Operations Manager

Date:

The cover letter is an integral part of this analytical report.









12/03/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4111504-01

Enclosed are results for sample(s) received 11/15/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 12/01/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**  
Date Received: **11/15/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4111504-01				
Client Sample I.D.:	AS-172				
Date Sampled:	11/15/04				
Date Analyzed:	11/16/04				
Analyst Initials:	DT				
Data File:	16nov010				
QC Batch:	041116GC11A1				
Dilution Factor:	5.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.050	0.11		
Benzene	0.010	0.050	0.34		
Toluene	0.010	0.050	6.0		
Ethylbenzene	0.010	0.050	0.85		
Total Xylenes	0.010	0.050	33		
TVPH as Gasoline	1.0	5.0	370		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



**Mark J. Johnson**  
**Air Toxics Operations Manager**

Date: 11-24-04

The cover letter is an integral part of this analytical report.



QC Batch No.: 041116GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		11/16/04		11/16/04		11/16/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		16nov007		16nov002		16nov003			
Gasoline Datafile:		16nov007		16nov005		16nov006			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	94	70-130%	99	70-130%	5.5	<30
Benzene	0.010	0.010	ND	92	70-130%	91	70-130%	0.6	<30
Toluene	0.010	0.010	ND	105	70-130%	101	70-130%	4.1	<30
Ethylbenzene	0.010	0.010	ND	103	70-130%	95	70-130%	8.1	<30
p,m-Xylene	0.010	0.010	ND	107	70-130%	98	70-130%	8.3	<30
o-Xylene	0.010	0.010	ND	103	70-130%	96	70-130%	7.6	<30
TVPH as Gasoline	1.0	1.0	ND	89	70-130%	89	70-130%	0.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson

Air Toxics Operations Manager

Date: 11-29-04

The cover letter is an integral part of this analytical report.









12/03/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4112204-01/07

Enclosed are results for sample(s) received 11/22/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

**Report Narrative:**

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 11/30/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**  
Date Received: **11/22/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4112204-01		A4112204-02		A4112204-03		A4112204-04		A4112204-05		
Client Sample I.D.:	AS-173		Vapor Port-1 VE-1		VE-2		VE-3		VE-4		
Date Sampled:	11/22/04		11/22/04		11/22/04		11/22/04		11/22/04		
Date Analyzed:	11/23/04		11/23/04		11/23/04		11/23/04		11/23/04		
Analyst Initials:	DT		DT		DT		DT		DT		
Data File:	23nov022		23nov023		23nov024		23nov025		23nov026		
QC Batch:	041123GC11A1		041123GC11A1		041123GC11A1		041123GC11A1		041123GC11A1		
Dilution Factor:	4.0		4.0		4.0		2.0		10		
ANALYTE	PQL	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results
MtBE	0.010	0.040	ND	0.040	ND	0.040	ND	0.020	ND	0.10	ND
Benzene	0.010	0.040	0.39	0.040	0.31	0.040	0.39	0.020	0.26	0.10	0.62
Toluene	0.010	0.040	5.4	0.040	5.3	0.040	5.5	0.020	3.8	0.10	11
Ethylbenzene	0.010	0.040	0.89	0.040	0.65	0.040	0.79	0.020	0.45	0.10	1.6
Total Xylenes	0.010	0.040	30	0.040	27	0.040	28	0.020	19	0.10	55
TVPH as Gasoline	1.0	4.0	350	4.0	290	4.0	320	2.0	260	10	590

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

*Mark J. Johnson*  
Mark J. Johnson

Air Toxics Operations Manager

Date: 11/30/04

The cover letter is an integral part of this analytical report.



Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**  
Date Received: **11/22/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4112204-06	A4112204-07			
Client Sample I.D.:	VE-5	VE-6			
Date Sampled:	11/22/04	11/22/04			
Date Analyzed:	11/23/04	11/23/04			
Analyst Initials:	DT	DT			
Data File:	23nov027	23nov028			
QC Batch:	041123GC11A1	041123GC11A1			
Dilution Factor:	1.0	1.0			
ANALYTE	PQL	RL	Results	RL	Results
MtBE	0.010	0.010	0.012	0.010	0.012
Benzene	0.010	0.010	0.11	0.010	0.022
Toluene	0.010	0.010	1.5	0.010	0.11
Ethylbenzene	0.010	0.010	0.46	0.010	0.012
Total Xylenes	0.010	0.010	11	0.010	3.5
TVPH as Gasoline	1.0	1.0	140	1.0	110

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

Mark J. Johnson

Air Toxics Operations Manager

Date: 11/30/04

The cover letter is an integral part of this analytical report.



QC Batch No.: 041123GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:	Method Blank	LCS	LCSD						
Date Analyzed:	11/23/04	11/23/04	11/23/04						
Analyst Initials:	DT	DT	DT						
BTEX Datafile:	23nov009	23nov001	23nov002						
Gasoline Datafile:	23nov009	23nov004	23nov005						
Dilution Factor:	1.0	1.0	1.0						
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	89	70-130%	88	70-130%	0.5	<30
Benzene	0.010	0.010	ND	82	70-130%	82	70-130%	0.1	<30
Toluene	0.010	0.010	ND	92	70-130%	91	70-130%	1.5	<30
Ethylbenzene	0.010	0.010	ND	86	70-130%	85	70-130%	1.4	<30
p,m-Xylene	0.010	0.010	ND	89	70-130%	88	70-130%	1.2	<30
o-Xylene	0.010	0.010	ND	84	70-130%	82	70-130%	1.9	<30
TVPH as Gasoline	1.0	1.0	ND	92	70-130%	88	70-130%	5.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark G. Johnson  
Air Toxics Operations Manager

Date: \_\_\_\_\_

11/30/04

The cover letter is an integral part of this analytical report.







12/14/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4112904-01

Enclosed are results for sample(s) received 11/29/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 12/09/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**

Date Received: **11/29/04**

Matrix: **Air**

Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4112904-01				
Client Sample I.D.:	AS-174				
Date Sampled:	11/29/04				
Date Analyzed:	12/01/04				
Analyst Initials:	DT				
Data File:	01dec014				
QC Batch:	041201GC11A1				
Dilution Factor:	5.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.050	ND		
Benzene	0.010	0.050	0.36		
Toluene	0.010	0.050	5.5		
Ethylbenzene	0.010	0.050	0.83		
Total Xylenes	0.010	0.050	30		
TVPH as Gasoline	1.0	5.0	340		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson

Air Toxics Operations Manager

Date: \_\_\_\_\_

  
12/9/04

The cover letter is an integral part of this analytical report.



**AirTECHNOLOGY Laboratories, Inc.**

18501 E. Gale Avenue, Suite 130 • City of Industry, CA 91748 • Ph: (626) 964-4032 • Fax: (626) 964-5922



QC Batch No.: 041201GC11A1

Matrix: Air

Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)


Lab No.:	Method Blank			LCS		LCSD			
Date Analyzed:	12/01/04			12/01/04		12/01/04			
Analyst Initials:	DT			DT		DT			
BTEX Datafile:	01dec008			01dec003		01dec004			
Gasoline Datafile:	01dec008			01dec006		01dec007			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	89	70-130%	87	70-130%	1.8	<30
Benzene	0.010	0.010	ND	86	70-130%	84	70-130%	2.8	<30
Toluene	0.010	0.010	ND	98	70-130%	94	70-130%	3.8	<30
Ethylbenzene	0.010	0.010	ND	94	70-130%	91	70-130%	3.7	<30
p,m-Xylene	0.010	0.010	ND	100	70-130%	95	70-130%	4.4	<30
o-Xylene	0.010	0.010	ND	100	70-130%	94	70-130%	6.6	<30
TVPH as Gasoline	1.0	1.0	ND	109	70-130%	107	70-130%	2.2	<30

PQL = Practical Quantitation Limit

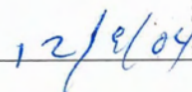
ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson  
Air Toxics Operations Manager

Date: \_\_\_\_\_

  
12/8/04

The cover letter is an integral part of this analytical report.



**AirTECHNOLOGY** Laboratories, Inc.

18501 E. Gale Avenue, Suite 120 • Denver, Colorado 80248

12/14/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4120605-01

Enclosed are results for sample(s) received 12/06/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 12/13/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**  
Date Received: **12/06/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**


Lab No.:	A4120605-01										
Client Sample I.D.:	AS-175										
Date Sampled:	12/06/04										
Date Analyzed:	12/08/04										
Analyst Initials:	DT										
Data File:	08dec015										
QC Batch:	041208GC11A1										
Dilution Factor:	5.0										
ANALYTE	PQL	RL	Results								
MtBE	0.010	0.050	ND								
Benzene	0.010	0.050	0.31								
Toluene	0.010	0.050	4.9								
Ethylbenzene	0.010	0.050	0.65								
Total Xylenes	0.010	0.050	26								
TVPH as Gasoline	1.0	5.0	310								

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson  
Air Toxics Operations Manager

Date: \_\_\_\_\_

12/13/04

The cover letter is an integral part of this analytical report.



**AirTECHNOLOGY** Laboratories, Inc.

18501 E. Gale Avenue, Suite 100 • Chino Hills, CA 91709 • (909) 414-1111



QC Batch No.: 041208GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		12/08/04		12/08/04		12/08/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		08dec010		08dec002		08dec003			
Gasoline Datafile:		08dec010		08dec005		08dec006			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	90	70-130%	89	70-130%	1.0	<30
Benzene	0.010	0.010	ND	84	70-130%	83	70-130%	1.2	<30
Toluene	0.010	0.010	ND	94	70-130%	92	70-130%	2.2	<30
Ethylbenzene	0.010	0.010	ND	88	70-130%	87	70-130%	1.1	<30
p,m-Xylene	0.010	0.010	ND	90	70-130%	89	70-130%	1.5	<30
o-Xylene	0.010	0.010	ND	96	70-130%	85	70-130%	13	<30
TVPH as Gasoline	1.0	1.0	ND	84	70-130%	82	70-130%	3.4	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

Mark J. Johnson  
Air Toxics Operations Manager

Date: \_\_\_\_\_

12/13/04

The cover letter is an integral part of this analytical report.



12/28/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4121306-01

Enclosed are results for sample(s) received 12/13/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 12/28/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.





Client: **C. James & Associates**  
Attn: **W. Heidi Hamilton**

Client's Project: **Metro Car Wash, Costa Mesa, Project #: 01105**  
Date Received: **12/13/04**  
Matrix: **Air**  
Units: **ppmv**

**EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)**

Lab No.:	A4121306-01				
Client Sample I.D.:	AS-176				
Date Sampled:	12/13/04				
Date Analyzed:	12/15/04				
Analyst Initials:	DT				
Data File:	15dec021				
QC Batch:	041215GC11A1				
Dilution Factor:	5.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.050	ND		
Benzene	0.010	0.050	0.26		
Toluene	0.010	0.050	4.2		
Ethylbenzene	0.010	0.050	0.58		
Total Xylenes	0.010	0.050	24		
TVPH as Gasoline	1.0	5.0	310		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson  
Operations Manager

Date: 12-28-07

The cover letter is an integral part of this analytical report.



QC Batch No.: 041215GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

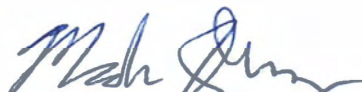
Lab No.:	Method Blank			LCS		LCSD			
Date Analyzed:	12/15/04			12/15/04		12/15/04			
Analyst Initials:	DT			DT		DT			
BTEX Datafile:	15dec009			15dec004		15dec005			
Gasoline Datafile:	15dec009			15dec001		15dec002			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	94	70-130%	88	70-130%	7.2	<30
Benzene	0.010	0.010	ND	85	70-130%	83	70-130%	2.7	<30
Toluene	0.010	0.010	ND	92	70-130%	92	70-130%	0.6	<30
Ethylbenzene	0.010	0.010	ND	87	70-130%	86	70-130%	1.4	<30
p,m-Xylene	0.010	0.010	ND	89	70-130%	88	70-130%	1.6	<30
o-Xylene	0.010	0.010	ND	85	70-130%	83	70-130%	1.6	<30
TVPH as Gasoline	1.0	1.0	ND	96	70-130%	94	70-130%	2.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Operations Manager

Date: 12-28-01

The cover letter is an integral part of this analytical report.



12/29/2004

C. James & Associates  
ATTN: W. Heidi Hamilton  
441 Calle Corazon,  
Oceanside, CA 92507

Project Reference: Metro Car Wash, Costa Mesa  
Lab Number: A4122007-01

Enclosed are results for sample(s) received 12/20/04 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.  
All results are reported without qualifications.

Results were faxed to W. Heidi Hamilton on 12/28/04.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,



Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Pg 1 of 1



Project Name: METRO CAR WASH, COSTA MESA

Project #: 01105

P.O. #: \_\_\_\_\_

1. CHILLED	Y <input type="checkbox"/> N <input type="checkbox"/>	4. SEALED	Y <input type="checkbox"/> N <input type="checkbox"/>
2. HEADSPACE (VOA)	Y <input type="checkbox"/> N <input type="checkbox"/>	5. # OF SPLS MATCH COC	Y <input type="checkbox"/> N <input type="checkbox"/>
3. CONTAINER INTACT	Y <input type="checkbox"/> N <input type="checkbox"/>	6. PRESERVED	Y <input type="checkbox"/> N <input type="checkbox"/>

Circle or Add  
Analysis(es) /

12/20

N=None

Container Types: B=Tedlar Bag C=Canister V=VOA O= Other

**DISTRIBUTION:** **White** with report, **Yellow** to folder, **Pink** to submitter.



Client: C. James & Associates  
Attn: W. Heidi Hamilton

Client's Project: Metro Car Wash, Costa Mesa, Project #: 01105  
Date Received: 12/20/04  
Matrix: Air  
Units: ppmv

EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

Lab No.:	A4122007-01				
Client Sample I.D.:	AS-177				
Date Sampled:	12/20/04				
Date Analyzed:	12/22/04				
Analyst Initials:	DT				
Data File:	22dec028				
QC Batch:	041222GC11A1				
Dilution Factor:	5.0				
ANALYTE	PQL	RL	Results		
MtBE	0.010	0.050	ND		
Benzene	0.010	0.050	0.35		
Toluene	0.010	0.050	5.1		
Ethylbenzene	0.010	0.050	0.79		
Total Xylenes	0.010	0.050	27		
TVPH as Gasoline	1.0	5.0	320		

PQL = Practical Quantitation Limit

ND = Not Detected (Below PQL)

RL = PQL X Dilution Factor

Reviewed/Approved By:

  
Mark J. Johnson  
Operations Manager

Date: 12-28-04

The cover letter is an integral part of this analytical report.





QC Batch No.: 041222GC11A1  
Matrix: Air  
Units: ppmv

QC for EPA Method TO-3 (BTEX/MtBE/TVPH as Gasoline)

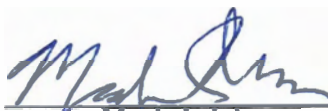
Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		12/22/04		12/22/04		12/22/04			
Analyst Initials:		DT		DT		DT			
BTEX Datafile:		22dec007		22dec002		22dec003			
Gasoline Datafile:		22dec007		22dec005		22dec006			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
MtBE	0.010	0.010	ND	91	70-130%	90	70-130%	1.8	<30
Benzene	0.010	0.010	ND	85	70-130%	83	70-130%	2.5	<30
Toluene	0.010	0.010	ND	93	70-130%	91	70-130%	1.9	<30
Ethylbenzene	0.010	0.010	ND	88	70-130%	86	70-130%	1.8	<30
p,m-Xylene	0.010	0.010	ND	88	70-130%	86	70-130%	2.1	<30
o-Xylene	0.010	0.010	ND	85	70-130%	83	70-130%	2.2	<30
TVPH as Gasoline	1.0	1.0	ND	112	70-130%	112	70-130%	0.5	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Operations Manager

Date: 12-28-09

The cover letter is an integral part of this analytical report.



# **Appendix D**

## **Mass Removal**

**HYDROCARBON MASS REMOVAL DATA**  
**Metro Car Wash**  
**2950 Harbor Boulevard, Costa Mesa, CA**

Date	SVE Clock Reading (hours)	Cumulative Run Time (hours)	Flow Rate (cfm)	Concentration (ppmV)	Removal Rate (lb/day)	Mass Removed per Period (lb)	Cummulative Mass Removed (lb)
4/24/2001	6826	0	25	33,700	308.4		0
5/14/2001	6980	154	30	28,300	310.8	1,987	1,987
5/24/2001	7020	194	25	6,300	57.7	307	2,294
5/30/2001	7119	293	25	23,500	215.1	562	2,856
6/6/2001	7239	413	20	13,300	97.4	781	3,637
6/11/2001	7407	581	30	1,780	19.5	409	4,046
6/19/2001	7599	773	35	3,030	38.8	233	4,280
6/25/2001	7743	917	40	18,700	273.8	938	5,218
7/2/2001	7911	1085	35	16,700	214.0	1,707	6,925
7/9/2001	8079	1253	35	13,700	175.5	1,363	8,288
7/17/2001	8271	1445	30	13,600	149.3	1,299	9,587
7/23/2001	8415	1589	25	12,900	118.1	802	10,390
7/30/2001	8583	1757	30	13,300	146.1	924	11,314
8/7/2001	72	1895	35	11,900	152.5	858	12,172
8/14/2001	156	1979	40	11,700	171.3	567	12,739
8/20/2001	210	2033	40	12,800	187.4	404	13,142
8/27/2001	378	2201	40	10,500	153.7	1,194	14,336
9/4/2001	570	2393	40	10,700	156.7	1,242	15,578
9/10/2001	714	2537	40	11,800	172.8	988	16,566
9/17/2001	882	2705	42	9,600	147.6	1,121	17,688
9/24/2001	1050	2873	44	2,600	41.9	663	18,351
10/1/2001	1290	3113	40	16,900	247.4	1,447	19,797
10/8/2001	1386	3209	35	14,500	185.8	866	20,664
10/15/2001	1554	3377	40	1,400	20.5	722	21,386
10/22/2001	1722	3545	30	1,100	12.1	114	21,500
10/29/2001	1850	3673	35	10,400	133.2	388	21,887
11/5/2001	2058	3881	35	10,800	138.4	1,177	23,064
11/12/2001	2226	4049	35	7,550	96.7	823	23,887
11/19/2001	2394	4217	35	7,190	92.1	661	24,548
11/26/2001	2562	4385	35	6,530	83.7	615	25,163
12/3/2001	2730	4553	50	8150	149.2	815	25,978
12/10/2001	2898	4721	50	6820	124.8	959	26,937
12/17/2001	3066	4889	50	9650	176.6	1,055	27,992
12/24/2001	3234	5057	50	4210	77.1	888	28,880
12/31/2001	3402	5225	50	4310	78.9	546	29,426
1/7/2002	3575	5398	50	4280	78.3	567	29,992
1/14/2002	3738	5561	50	2560	46.9	425	30,418
1/22/2002	3926	5749	50	540	9.9	222	30,640
1/28/2002	4068	5891	50	861	15.8	76	30,716
2/4/2002	4231	6054	50	649	11.9	94	30,809
2/11/2002	4372	6195	50	509	9.3	62	30,872
2/18/2002	4538	6361	50	618	11.3	71	30,943
2/25/2002	4696	6519	55	409	8.2	64	31,007
3/12/2002	5050	6873	55	6490	130.7	1,024	32,032
3/18/2002	5178	7001	55	8400	169.1	799	32,831



# HYDROCARBON MASS REMOVAL DATA

## Metro Car Wash

### 2950 Harbor Boulevard, Costa Mesa, CA

Date	SVE Clock Reading (hours)	Cumulative Run Time (hours)	Flow Rate (cfm)	Concentration (ppmV)	Removal Rate (lb/day)	Mass Removed per Period (lb)	Cummulative Mass Removed (lb)
3/25/2002	5336	7159	55	4200	84.6	835	33,666
4/1/2002	5504	7327	55	2750	55.4	490	34,156
4/8/2002	5672	7495	55	6910	139.1	681	34,837
4/15/2002	5816	7639	55	5880	118.4	772	35,609
4/22/2002	5960	7783	58	3820	81.1	598	36,207
4/29/2002	6080	7903	55	4820	97.0	445	36,653
5/6/2002	6224	8047	55	5070	102.1	597	37,250
5/13/2002	6368	8191	58	3920	83.2	556	37,806
5/20/2002	6536	8359	59	4360	94.2	621	38,427
5/28/2002	6776	8599	55	2070	41.7	679	39,106
6/3/2002	6848	8671	55	3520	70.9	169	39,275
6/10/2002	7016	8839	58	2080	44.2	403	39,677
6/17/2002	7184	9007	57	1970	41.1	298	39,976
6/24/2002	7348	9171	55	1910	38.5	272	40,248
7/1/2002	7516	9339	55	1900	38.3	268	40,516
7/8/2002	7684	9507	55	1760	35.4	258	40,774
7/15/2002	7852	9675	60	1500	32.9	239	41,013
7/22/2002	8020	9843	60	1570	34.5	236	41,249
7/29/2002	8188	10011	60	1700	37.3	251	41,501
8/5/2002	8356	10179	58	1440	30.6	238	41,738
8/12/2002	8524	10347	57	1220	25.5	196	41,935
8/19/2002	8662	10485	60	754	16.6	121	42,055
8/26/2002	8824	10647	60	843	18.5	118	42,174
9/3/2002	9014	10837	60	966	21.2	157	42,331
9/9/2002	9238	11061	60	905	19.9	192	42,523
9/19/2002	9365	11188	60	1570	34.5	144	42,667
9/25/2002	9473	11296	60	1740	38.2	164	42,830
9/30/2002	9571	11394	60	2090	45.9	172	43,002
10/7/2002	9739	11562	55	799	16.1	217	43,219
10/14/2002	9906	11729	57	1960	40.9	198	43,417
10/22/2002	10100	11923	58	1420	30.1	287	43,704
10/28/2002	10238	12061	60	1690	37.1	193	43,898
11/4/2002	10416	12239	60	1900	41.7	292	44,190
11/11/2002	10582	12405	60	1860	40.9	286	44,476
11/19/2002	10846	12669	58	2180	46.3	479	44,955
11/25/2002	10922	12745	57	1520	31.7	123	45,078
12/2/2002	11092	12915	60	880	19.3	181	45,259
12/9/2002	11260	13083	60	1700	37.3	198	45,457
12/16/2002	11428	13251	60	1100	24.2	215	45,673
12/24/2002	11576	13399	60	1100	24.2	149	45,822
12/30/2002	11720	13543	60	2300	50.5	224	46,046
1/27/2003	11816	13639	60	1500	32.9	167	46,213
2/3/2003	11983	13806	65	1700	40.4	255	46,468
2/10/2003	12153	13976	65	1600	38.1	278	46,746
2/17/2003	12322	14145	65	490	11.7	175	46,921
2/24/2003	12489	14312	60	1300	28.6	140	47,061



**HYDROCARBON MASS REMOVAL DATA**  
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3/3/2003	12657	14480	60	1700	37.3	231	47,292
3/10/2003	12825	14648	60	1700	37.3	261	47,553
3/17/2003	12993	14816	63	2400	55.3	324	47,877
3/24/2003	13161	14984	65	1600	38.1	327	48,204
3/31/2003	13329	15152	65	1700	40.4	275	48,479
4/7/2003	13501	15324	65	1600	38.1	281	48,760
4/14/2003	13580	15403	65	1500	35.7	121	48,882
4/21/2003	13751	15574	65	1400	33.3	246	49,128
4/28/2003	13918	15741	60	1400	30.7	223	49,351
5/5/2003	14088	15911	60	1500	32.9	226	49,576
5/12/2003	14256	16079	63	1100	25.4	204	49,780
5/19/2003	14424	16247	65	1400	33.3	205	49,986
5/27/2003	14617	16440	60	1200	26.4	240	50,225
6/2/2003	14764	16587	65	990	23.6	153	50,378
6/9/2003	14931	16754	65	940	22.4	160	50,538
6/16/2003	15101	16924	65	570	13.6	127	50,665
6/23/2003	15270	17093	60	370	8.1	76	50,742
6/30/2003	15438	17261	60	350	7.7	55	50,797
7/9/2003	15630	17453	65	600	14.3	88	50,885
7/14/2003	15774	17597	65	500	11.9	79	50,963
7/21/2003	15942	17765	65	770	18.3	106	51,069
7/28/2003	16110	17933	65	950	22.6	143	51,212
8/4/2003	16254	18077	65	770	18.3	123	51,335
8/12/2003	16436	18259	60	910	20.0	145	51,480
8/18/2003	16580	18403	60	790	17.4	112	51,592
8/25/2003	16738	18561	63	920	21.2	127	51,719
9/2/2003	16930	18753	65	960	22.8	176	51,896
9/10/2003	17119	18942	65	930	22.1	177	52,073
9/15/2003	17296	19119	63	660	15.2	138	52,210
9/22/2003	17465	19288	65	860	20.5	126	52,336
9/29/2003	17634	19457	60	790	17.4	133	52,469
10/6/2003	17806	19629	65	260	6.2	84	52,554
10/13/2003	17974	19797	65	1100	26.2	113	52,667
10/20/2003	18144	19967	65	950	22.6	173	52,840
10/27/2003	18312	20135	60	850	18.7	144	52,984
11/3/2003	18477	20300	60	840	18.4	128	53,112
11/10/2003	18647	20470	65	1000	23.8	150	53,261
11/17/2003	18817	20640	65	1000	23.8	169	53,430
11/24/2003	18985	20808	65	960	22.8	163	53,593
12/2/2003	19046	20869	65	910	21.7	57	53,649
12/8/2003	19146	20969	65	890	21.2	89	53,739
12/15/2003	19316	21139	60	670	14.7	127	53,866
12/22/2003	19483	21306	60	680	14.9	103	53,969
12/29/2003	19652	21475	63	780	18.0	116	54,085
1/5/2004	19819	21642	64	690	16.2	119	54,204
1/12/2004	19990	21813	65	800	19.0	125	54,329

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1/19/2004	20158	21981	65	660	15.7	122	54,451
1/26/2004	20327	22150	65	700	16.7	114	54,565
2/4/2004	20393	22216	65	650	15.5	44	54,609
2/9/2004	20517	22340	65	790	18.8	89	54,697
2/16/2004	20685	22508	55	780	15.7	121	54,818
2/23/2004	20853	22676	58	730	15.5	109	54,927
3/1/2004	21022	22845	51	860	16.1	111	55,038
3/8/2004	21189	23012	52	730	13.9	104	55,143
3/15/2004	21359	23182	50	710	13.0	95	55,238
3/22/2004	21466	23289	50	1200	22.0	78	55,316
5/24/2004	21580	23403	60	650	14.3	86	55,402
6/1/2004	21774	23597	60	620	13.6	113	55,515
6/7/2004	21915	23738	60	640	14.1	81	55,596
6/14/2004	22084	23907	60	550	12.1	92	55,688
6/21/2004	22218	24041	55	470	9.5	60	55,748
6/28/2004	22390	24213	58	290	6.2	56	55,804
7/6/2004	22582	24405	51	570	10.6	67	55,871
7/12/2004	22723	24546	52	580	11.0	64	55,935
7/19/2004	22890	24713	50	550	10.1	73	56,008
7/26/2004	23056	24879	50	620	11.3	74	56,082
8/2/2004	23218	25041	50	430	7.9	65	56,147
8/9/2004	23385	25208	55	580	11.7	68	56,215
8/16/2004	23510	25333	58	480	10.2	57	56,272
8/23/2004	23679	25502	51	480	9.0	67	56,340
8/30/2004	23848	25671	52	370	7.0	56	56,396
9/15/2004	23968	25791	50	400	7.3	36	56,432
9/21/2004	24252	26075	50	430	7.9	90	56,522
9/27/2004	24369	26192	50	480	8.8	41	56,562
10/4/2004	24498	26321	50	400	7.3	43	56,606
10/11/2004	24665	26488	50	260	4.8	42	56,648
10/18/2004	24756	26579	50	370	6.8	22	56,669
10/25/2004	24796	26619	50	390	7.1	12	56,681
11/1/2004	24859	26682	48	220	3.9	14	56,695
11/8/2004	24893	26716	48	330	5.8	7	56,702
11/15/2004	25057	26880	48	370	6.5	42	56,744
11/22/2004	25225	27048	50	350	6.4	45	56,790
11/29/2004	25393	27216	50	340	6.2	44	56,834
12/6/2004	25561	27384	50	310	5.7	42	56,875
12/13/2004	25730	27553	50	310	5.7	40	56,915
12/20/2004	25898	27721	48	320	5.6	40	56,955
12/27/2004	26067	27890	48	290	5.1	38	56,993



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